



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H140752

Mode: Highway

Status: Submitted

US-70, NC-50

From/Cross Street: US 401

Specific Improvement Type: 1 - Widen Existing Roadway

To: NC 42

Project Category: Regional Impact

Length: 12.07

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$54,642,000

Description:

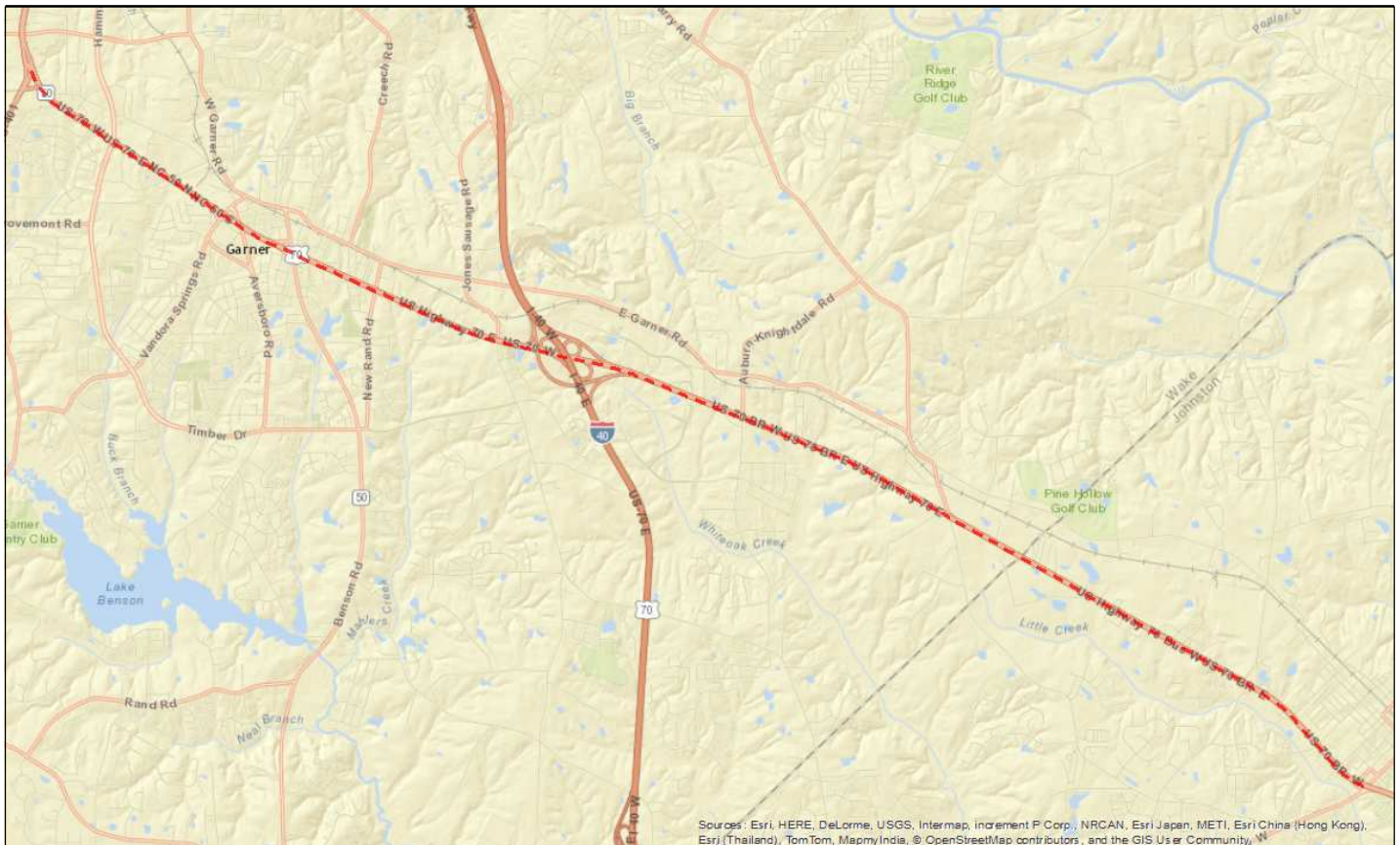
Widen existing roadway from 4 to 6 lanes.

Division(s): Division 5, Division 4

County(s): WAKE, JOHNSTON

MPOS(s)/RPO(s): Capital Area MPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 47.24

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 68.23	Percent: 15% Points: 28	Percent: 15% Points: 94
Safety (10%) 67.79		
[Travel Time] Benefit/Cost (25%) 10.86		
Accessibility / Connectivity (10%) 23.92		
Totals: Weight: 70% Weighted Score: 28.94		

Division Needs Total Score: 22.6

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 68.23	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%) 67.79		
[Travel Time] Benefit/Cost (20%) 10.86		
Totals: Weight: 50% Weighted Score: 22.6		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	51
Length (miles):	12.07
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	4
Roadway has Curb & Gutter?	No
Volume (AADT):	29765.68
Capacity:	31710.16
Volume/Capacity Ratio:	0.94
% Autos:	96%
% Trucks:	4%
Truck Volume:	1084.31
Crash Density:	68.89
Crash Severity:	70.91
Critical Crash Rate:	63.6
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	27
Existing Median Type (for Cost Estimation):	Divided
Pavement Condition Rating:	84
Actual Congested Speed:	41.77
Travel Time Index:	1.32

Project Benefits

Project Cross-Section:	6E - 6 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, and Sidewalks
Speed Limit:	51
Length (miles):	12.07
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	26565946.84
Travel Time Savings for 30 Years (Autos):	25598197.12
Travel Time Savings for 30 Years (Trucks):	967749.72
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	Yes
CTP/LRTP Name:	CAMPO 2040 MTP
CTP/LRTP Completion Year:	2013
Submitted by:	Capital Area MPO

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 5	72%	0	0
Division 4	28%	28	0
	0%	0	0
TOTAL Division Points		28	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	94	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		94	0

Project Cost and Source

Construction Cost:	\$52,300,000	Cost Estimation Tool
Right-of-Way Cost:	\$2,091,000	Cost Estimation Tool
Utilities Cost:	\$251,000	Cost Estimation Tool
Total Project Cost:	\$54,642,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$54,642,000	